(5)

(19) JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 07304736 A

(43) Date of publication of application: 21.11.95

(51) Int. Cl C07D209/08
A61K 31/40
A61K 31/40
A61K 31/40
A61K 31/40
C12N 9/99

(21) Application number: 06096347

(22) Date of filing: 10.05.94

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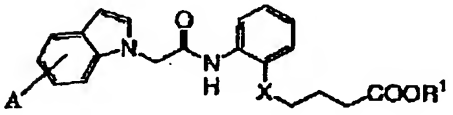
(54) **INDOLE DERIVATIVE**

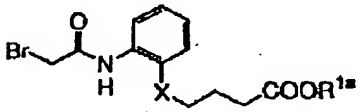
(57) Abstract:

PURPOSE: To obtain a new compound having steroid 5α -reductase-inhibiting action and useful for treating prostatic hypertrophy, prostate cancer and acne.

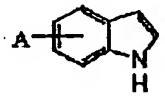
CONSTITUTION: A compound of formula I {R^1 is H or lower alkyl ; A is NO_2 or BR^2 [BR^2 is $CONHR^2$, $COOR^2$ or OR^2; R^2 is H, CHR^3 or R^4 (R^3 and R^4 are each H, an alkyl or an aryl)] ; X is 0 or $S(O)_n$; (n) is 0-2} or its salt, e.g. 4-{2-[[5-nitroindol-1-yl)acetyl]amino]phenoxy}lactic acid ethyl. The compound of formula I is obtained by reacting a compound of formula II (R^{1a} is a lower alkyl) with a compound of formula III in the presence of a base (e.g. potassium tert-butylate) in a solvent (e.g., dimethylformamide) at °C to a boiling point of the solvent for 0.5-6 hr. The compound of formula I is administered at a daily dose of 1mg to 1g/adult in the case of oral administration, at a daily dose of 0.1-100mg in the case of parenteral administration, e.g. intravenous administration and at a daily dose of 10mg to 100mg in the case of dermal administration.



I



II



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